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would not be so apt to fall into error as when (as in the case considered) an entirely incorrect theory is embedded, labelless, in a mass of facts.

The book is very clearly written and the style is good. The only misprints in the book appear to be those on pages 80 and 81, where the velocity of light is twice given as 185 miles per second.

Magnetism and Electricity. By ARTHUR WILLIAM POYSER, M. A., Headmaster of Wisbech Grammar School. London and New York, Longmans, Green & Co.

THIS book is arranged in the same way as Silvanus P. Thompson's text-book, and is intended for the same purpose. In some ways it is more complete than the latter, and the type is larger and clearer. The illustrations, especially, are well drawn, and it is with delight that one realizes the absence of most of the old stereotypes which have done duty in so many scores of text-books. This is explained in the preface, where we learn that out of the 317 engravings in the book, more than 200 are from original drawings. At intervals throughout the book are given the directions for some 200 experiments, evidently carefully selected, and there are also twenty four sets of exercises given, with the answers to the more difficult examples in them. The book seems one of the best suited for teaching purposes that has appeared and is brought quite up to date. It needs amplifying, however, in those parts which relate to magnetic circuits and permeability.

R. A. F.

Catalogue of American Localities of Minerals. By EDWARD S. DANA. From the 6th Edition of Dana's Mineralogy. New York, J. Wiley & Sons, 1893. 51 p. 8°.

THIS catalogue will serve a useful purpose in enabling students of mineralogy to readily ascertain just where in any State or Territory the best localities for minerals are. The information is classified under States, beginning with Maine and ending with Alaska, and followed by the Canadian provinces. A few general

remarks are made under each State, Territory or Province, and then follow the counties and the towns where the mineral localities are. It would have been made more valuable by the addition of an index to the minerals mentioned, since then it would have been possible to ascertain in a few moments where any particular species occurs.

AMONG THE PUBLISHERS.

S. C. GRIGGS & Co., Chicago, announce for early publication a work by Elizabeth A. Reed, author of "Hindu Literature," etc., entitled "Persian Literature, Ancient and Modern."

— Mr. William Salter, the author of "Ethical Religion," has issued, through Charles H. Kerr & Co. of Chicago, a small book, entitled "First Steps in Philosophy." It is very plain and simple in style and as free as possible of technical terms; and in these respects is well adapted to its purpose. It omits so much, however, that it can hardly be deemed a sufficient introduction to philosophical study. It gives no general view of the problems of philosophy nor of the methods of studying it. The general theory of knowledge is not touched upon; and the question of theism is not raised, the first part of the book being wholly devoted to the doctrine of perception and the nature of matter. The author's views on these points are substantially those of the idealists; though he shows a certain leaning towards realism, and evidently is not quite satisfied with the idealistic theory. The second part of the book, which treats of ethics, is much more satisfactory, and will be read with interest even by those who do not accept the author's views. He discusses the nature and foundation of duty, criticises the doctrines of intuitionists and utilitarians, and gives as his own theory one substantially like that of Hegel, which regards the complete realization of everyone's nature as the supreme end of action. Though not wholly satisfactory, this little book may serve to awaken the philosophic impulse in minds naturally susceptible of it, and be the propedeutic to more elaborate studies.

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For sale—A complete set of the third series of the American Journal of Science (1870-1893) handsomely bound in single volumes in dark brown half morocco. Address G. H. Williams, 803 Cathedral Street, Baltimore, Md.

For sale, or for exchange for books on medicine or surgery, new editions only, a large geological library, containing nearly all the State and Government Reports since 1855. Will be pleased to answer letters of inquiry and give information. Address R. ELLSWORTH CALL, Louisville, Ky.

For exchange.—Slides of Indian Territory Loup Fork Tertiary Diatoms for other microscopic fossils. Address S. W. WILLISTON, Univ. of Kansas, Lawrence, Kans.

For exchange.—Will exchange an "Ideal" Microscope of R. and J. Beck, London, 2 eye pieces 3 objectives, 3 inch, 1 inch, 1-6 inch; bull's eye condenser on stand, substage condenser, mechanical stage, etc., for any of the leading makes of type writers. Particulars by mail. DELOS FALL, Albion College, Albion, Mich.

For sale or exchange. — I have a few copies of my translation of "Strasburger's Manual of Vegetable Histology, 1887," now out of print, which I will send post-paid for \$3 or for one dozen good slides illustrating plant or animal structure. Address A. B. Hervey, St. Lawrence University, Canton, N. Y.

The undersigned has the following specimens to exchange for crystals of any eastern or foreign localities or Indian relics: tin ore, meta-cinnabarite, stibnite, garnierite, calcanite, hanksite, ulexite, rubellite, lepidolite, blue and green onyx, Cal. pinete, aragonite on chalcodony, cinnabar, double refracting spar, clear and clouded, and others. J. R. Bush, care of General Delivery, Los Angeles, Cal.

For sale or exchange.—A private cabinet of about 200 species of fossils, well distributed geologically and geographically. Silurian, about 40; Devonian, about 50; Carboniferous, about 80; others, about 30. Frank S. Aby, State University, Iowa City, Ia.

Wants.

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WANTED—Second-hand copy Tryon's Systematic Conchology. Please quote condition, date, price. H. L. Osborn, Hamline University, St. Paul, Minn.

A COMPETENT TEACHER of botany in college or university is open to engagement. Address L., Box 86, Rochester, Mich.

CAN any one inform me as to the age to which cats have lived? I have one twenty years old. Edward D. Webb, 132 W. Eighty-first St., New York.

WANTED—Second-hand. Foster's Physiology, Balfour's Comparative Embryology, Claus & Sedgwick's Zoology, Flower's Osteology of Mammalia, Vine's Physiology of Plants. Please state editions and prices asked and address Richard Lees Brampton, Ontario, Canada

WANTED.—American Journal of Conchology, seven volumes. Parties having these for sale will please address the undersigned, stating condition and price. R. Ellsworth Call, Louisville, Ky.

A GRADUATE ENGINEER will give instruction evenings in geometry, trigonometry and surveying, mechanics, physics, mechanical drawing and general engineering construction. Five years' experience in field and editorial work on engineering journal. References furnished. C. S. H., 102 Tribune Building, New York.

WANTED.—By well-qualified and experienced science master and associate of the Royal School of Mines, London, aged 26 (at present in England), a mastership in technical college or university for any of the following subjects: Engineering sciences, geology and mineralogy, physics, chemistry and metallurgy, etc., etc. Can provide excellent references and credentials. Apply, J. G., 17 Sussex St., Rochdale, England.